

Application No. 10/730,143  
Responsive to Decision on Appeal dated March 30, 2007  
Attorney Docket No. FS-F03215-01

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently amended): A photothermographic material comprising a photosensitive silver halide, a non-photosensitive organic silver salt, a reducing agent, a compound represented by the following formula (H) in an amount of from  $10^{-5}$  mol to 1 mol per 1 mol of non-photosensitive organic silver salt:

**Formula (H)**



wherein Q represents an alkyl group, an aryl group, or a heterocyclic group; Y represents a divalent connecting group; n represents 0 or 1; Z<sub>1</sub> and Z<sub>2</sub> each represent a halogen atom; and X represents a hydrogen atom or an electron withdrawing group,

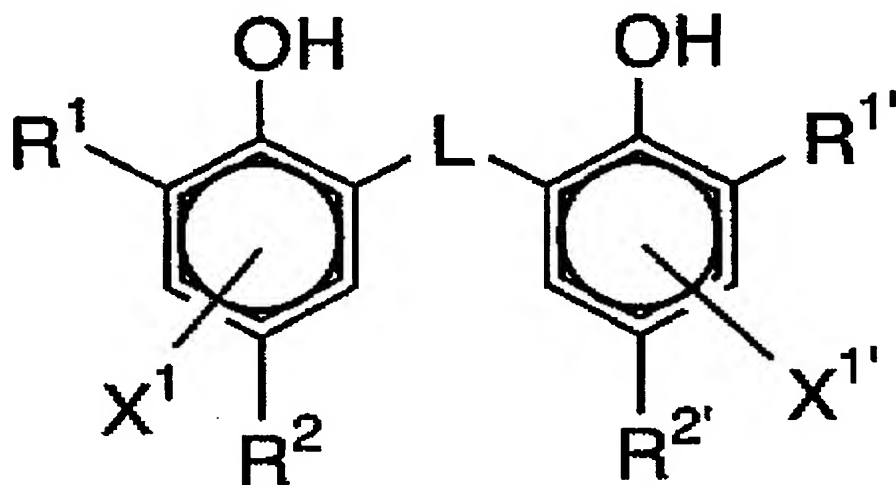
and a binder on at least one surface of a support, wherein silver iodide is contained in the photosensitive silver halide in an amount of ~~40~~70 % to 100 % by mole, and the reducing agent contains a compound represented by the following formula (R-1):

**Formula (R-1)**

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wherein R<sup>1</sup> and R<sup>1'</sup> each independently represent an alkyl group having 3 to 20 carbon atoms, in which a carbon atom bonding to the benzene ring is secondary or tertiary; R<sup>2</sup> and R<sup>2'</sup> each represent a methyl group; L represents an -S- group or a -CHR<sup>3</sup>- group, in which R<sup>3</sup> represents a hydrogen atom or an alkyl group having 1 to 20 carbon atoms; and X<sup>1</sup> and X<sup>1'</sup> each independently represent a hydrogen atom or a group capable of being substituted on the benzene ring; and

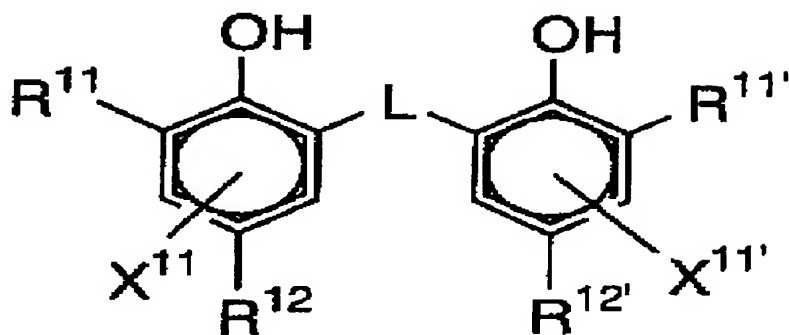
the reducing agent includes a second compound selected from formula (R-2) or from formula (R-3)

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Formula (R-2)



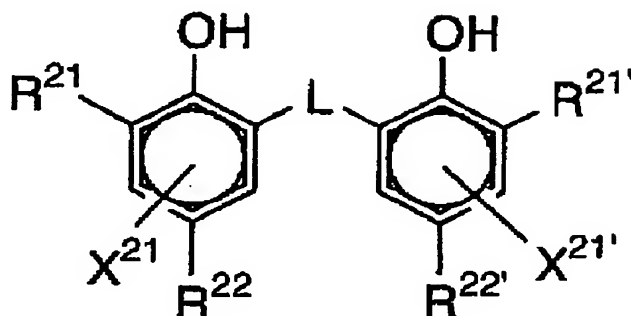
wherein R<sup>11</sup> and R<sup>11'</sup> each independently represent an alkyl group having 3 to 20 carbon atoms, in which a carbon atom bonding to the benzene ring is secondary or tertiary; R<sup>12</sup> and R<sup>12'</sup> each independently represent an alkyl group having 2 to 20 carbon atoms; L represents an -S- group or a -CHR<sup>13</sup>- group, in which R<sup>13</sup> represents a hydrogen atom or an alkyl group having 1 to 20 carbon atoms; and X<sup>11</sup> and X<sup>11'</sup> each independently represent a hydrogen atom or a group capable of being substituted on the benzene ring;

Formula (R-3)

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wherein  $R^{21}$  and  $R^{21'}$  each independently represent a methyl group or an alkyl group having 2 to 20 carbon atoms, in which a carbon atom bonding to the benzene ring is primary;  $R^{22}$  and  $R^{22'}$  each independently represent an alkyl group having 1 to 20 carbon atoms; L represents an -S- group or a -CHR<sup>23</sup>- group, in which R<sup>23</sup> represents a hydrogen atom or an alkyl group having 1 to 20 carbon atoms; and X<sup>21</sup> and X<sup>21'</sup> each independently represent a hydrogen atom or a group capable of being substituted on the benzene ring.

2. (Canceled)

3. (Original): The photothermographic material of claim 1, wherein the silver iodide is contained in the photosensitive silver halide in an amount of 90 % to 100 % by mole.

4. (Original): The photothermographic material of claim 1, wherein the photosensitive silver halide has a mean grain size of 5 nm to 80 nm.

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5. (Original): The photothermographic material of claim 1, wherein the photosensitive silver halide has a mean grain size of 5 nm to 40 nm.

6. (Canceled).

7. (Canceled).

8. (Original): The photothermographic material of claim 1, which is exposed with laser light.

9. (Original): The photothermographic material of claim 8, wherein the laser light has a light emission peak intensity in a range of 390 nm to 430 nm.

10. (Original): The photothermographic material of claim 1, wherein a characteristic curve of the photothermographic material has a gamma in a range of 2 to 5.

Claims 11.-19. (Canceled).